NODE=S061

NODE=S061T

NODE=S061T

# b-baryon ADMIXTURE $(\Lambda_b, \Xi_b, \Sigma_b, \Omega_b)$

### b-baryon ADMIXTURE MEAN LIFE

Each measurement of the b-baryon mean life is an average over an admixture of various b baryons which decay weakly. Different techniques emphasize different admixtures of produced particles, which could result in a different b-baryon mean life. More b-baryon flavor specific channels are not included in the measurement.

"OUR EVALUATION" is an average using rescaled values of the data listed below. The average and rescaling were performed by the Heavy Flavor Averaging Group (HFAG) and are described at http://www.slac.stanford.edu/xorg/hfag/. The averaging/rescaling procedure takes into account correlations between the measurements and asymmetric lifetime errors.

NODE=S061T ED ← NODE=S061T;LINKAGE=AD NODE=S061T;LINKAGE=AB NODE=S061T;LINKAGE=AA NODE=S061T;LINKAGE=BA NODE=S061T;LINKAGE=N2 NODE=S061T;LINKAGE=N3 NODE=S061T;LINKAGE=LP NODE=S061T;LINKAGE=KK NODE=S061T;LINKAGE=AE

<i>VALUE</i> (10 <sup>-12</sup> s)	<u>EVTS</u>	DOCUMENT ID		TECN	COMMENT	NODE=S061T	
<b>1.402 <math>\pm</math> 0.023 OUR EVA</b> $[(1.382 \pm 0.029) \times 10^{-1}]$	LUATION	<b>)</b> 2 2012 EVALUATIO	וואנ			NEW;→ UNCHECKE	:[
Average is meaningless. 1.3			-	R 2012 /	AVERAGE Scale factor $=$		
$1.449 \pm 0.036 \pm 0.017$ $1.303 \pm 0.075 \pm 0.035$ $1.401 \pm 0.046 \pm 0.035$		<sup>1</sup> AAD <sup>2</sup> ABAZOV <sup>3</sup> AALTONEN	<b>12</b> U	ATLS D0 CDF	pp at 7 TeV $p\overline{p}$ at 1.96 TeV $p\overline{p}$ at 1.96 TeV		
$1.290 + 0.119 + 0.087 \\ -0.110 - 0.091$		<sup>4</sup> ABAZOV	<b>07</b> U	D0	$p\overline{p}$ at 1.96 TeV		
$1.593^{+0.083}_{-0.078} \pm 0.033$		<sup>2</sup> ABULENCIA	07A	CDF	$p\overline{p}$ at 1.96 TeV		
$\begin{array}{c} 1.16 \pm 0.20 \pm 0.08 \\ 1.19 \pm 0.14 \pm 0.07 \\ 1.11 + 0.19 \pm 0.05 \end{array}$		<sup>5</sup> ABREU <sup>6</sup> ABREU <sup>7</sup> ABREU	99W	DLPH	$e^+e^- \rightarrow Z$ $e^+e^- \rightarrow Z$ $e^+e^- \rightarrow Z$	OCCUR=2 OCCUR=4	
$\begin{array}{c} -0.18 \\ 1.29 \begin{array}{c} +0.24 \\ -0.22 \end{array} \pm 0.06 \end{array}$		<sup>7</sup> ACKERSTAFF	98G	OPAL	$e^+e^-  ightarrow Z$		
$-0.22$ $1.20 \pm 0.08 \pm 0.06$ $1.21 \pm 0.11$ $1.32 \pm 0.15 \pm 0.07$		<sup>8</sup> BARATE <sup>7</sup> BARATE <sup>9</sup> ABE	98D		$e^+e^- \rightarrow Z$ $e^+e^- \rightarrow Z$ $p\overline{p}$ at 1.8 TeV	OCCUR=2	
$1.10  {}^{+0.19}_{-0.17}  \pm 0.09$		<sup>7</sup> ABREU			$e^+e^- \rightarrow Z$	OCCUR=2	
$1.16 \ \pm 0.11 \ \pm 0.06$		<sup>7</sup> AKERS	96		$e^+e^-  ightarrow Z$		
• • • We do not use the	e followin	g data for averages	, fits,	limits, e	etc. • • •		
$1.218^{\displaystyle +0.130}_{\displaystyle -0.115} \pm 0.042$		<sup>2</sup> ABAZOV	<b>07</b> S	D0	Repl. by ABAZOV 12U		
$1.22 \ ^{+0.22}_{-0.18} \ \pm 0.04$		<sup>2</sup> ABAZOV	<b>05</b> C	D0	Repl. by ABAZOV 07S		
$1.14 \pm 0.08 \pm 0.04$		<sup>10</sup> ABREU	99W	DLPH	$e^+e^-  ightarrow Z$	OCCUR=3	
$1.46 \begin{array}{c} +0.22 & +0.07 \\ -0.21 & -0.09 \end{array}$		ABREU	<b>96</b> D	DLPH	Repl. by ABREU 99W		
$1.27 \ ^{+0.35}_{-0.29} \ \pm 0.09$		ABREU	<b>95</b> S	DLPH	Repl. by ABREU 99W		
$1.05 \ ^{+0.12}_{-0.11} \ \pm 0.09$	290	BUSKULIC	95L	ALEP	Repl. by BARATE 98D		
$1.04 \ ^{+0.48}_{-0.38} \ \pm 0.10$	11	<sup>11</sup> ABREU	93F	DLPH	Excess $\Lambda\mu^-$ , decay lengths		
$1.05 \ ^{+0.23}_{-0.20} \ \pm 0.08$	157	<sup>12</sup> AKERS	93	OPAL	Excess $\Lambda \ell^-$ , decay lengths		
$1.12 \ ^{+0.32}_{-0.29} \ \pm 0.16$	101	<sup>13</sup> BUSKULIC	921	ALEP	Excess $\Lambda \ell^-$ , impact		

<sup>1</sup> Measured with  $\Lambda_h^0 \to J/\psi(\mu^+\mu^-) \Lambda^0(p\pi^-)$  decays.

 $^5\,\mathrm{Measured}$  using  $\varLambda\ell^-$  decay length.

<sup>6</sup> Measured using  $p\ell^-$  decay length.

<sup>9</sup> Measured using  $\Lambda_c \ell^-$ .

<sup>7</sup> Measured using  $\Lambda_{c}\ell^{-}$  and  $\Lambda\ell^{+}\ell^{-}$ .

 $^2$  Measured mean life using fully reconstructed  $\Lambda_b^0 \to J/\psi \Lambda$  decays.  $^3$  Measured mean life using fully reconstructed  $\Lambda_b^0 \to \Lambda_c^+ \pi^-$  decays.

 $^8\,\text{Measured}$  using the excess of  $\Lambda\ell^-$  , lepton impact parameter.

<sup>4</sup> Measured using semileptonic decays  $\Lambda_b(0) \to \Lambda_c^+ \mu \nu X$ ,  $\Lambda_c^+ \to K_S^0 p$ .

parameters

<sup>10</sup> This ABRI	EU 99W	result	is the	combined	result	of	the $\Lambda\ell$	<b>-</b> ,	$p\ell^-$	, and	excess	$\Lambda \mu^-$
impact par												

<sup>11</sup> ABREU 93F superseded by ABREU 96D.

<sup>12</sup> AKERS 93 superseded by AKERS 96.

 $^{13}$ BUSKULIC 921 superseded by BUSKULIC 95L.

### NODE=S061T;LINKAGE=N4

NODE=S061T;LINKAGE=C NODE=S061T;LINKAGE=B NODE=S061T;LINKAGE=D

NODE=S061210; NODE=S061

NODE=S061

### b-baryon ADMIXTURE DECAY MODES $(\Lambda_b,\Xi_b,\Sigma_b,\Omega_b)$

These branching fractions are actually an average over weakly decaying bbaryons weighted by their production rates at the LHC, LEP, and Tevatron, branching ratios, and detection efficiencies. They scale with the b-baryon production fraction  $B(b \rightarrow b\text{-baryon})$ .

The branching fractions B(b-baryon o  $\Lambda \ell^- \overline{
u}_\ell$  anything) and B( $\Lambda_h^0 o$  $\Lambda_{c}^{+}\ell^{-}\overline{
u}_{\ell}$  anything) are not pure measurements because the underlying measured products of these with B( $b \rightarrow b$ -baryon) were used to determine  $\mathsf{B}(b \to b\text{-baryon})$ , as described in the note "Production and Decay of b-Flavored Hadrons."

For inclusive branching fractions, e.g.,  $B o D^{\pm}$  anything, the values usually are multiplicities, not branching fractions. They can be greater

	Mode	Fraction $(\Gamma_i/\Gamma)$	
Γ <sub>1</sub>	$p\mu^-\overline{ u}$ anything	( 5.3 + 2.2 ) %	DESIG=8
$\Gamma_2$	$ ho\ell\overline{ u}_\ell$ anything	( 5.1± 1.2) %	DESIG=9
$\Gamma_3$	<i>p</i> anything	$(63 \pm 21)\%$	DESIG=10
$\Gamma_4$	$\Lambda \ell^- \overline{ u}_\ell$ anything	( 3.4± 0.6) %	DESIG=5
$\Gamma_5$	$\Lambda \ell^+  u_\ell$ anything		DESIG=2
$\Gamma_6$	$\Lambda$ anything		DESIG=3
$\Gamma_7$	$\Lambda_{c}^{+}\ell^{-}\overline{ u}_{\ell}$ anything		DESIG=6
$\Gamma_8$	$\Lambda/\overline{\Lambda}$ anything	(36 ± 7 )%	DESIG=7
Γ <sub>9</sub>	$\overline{\Xi}^-\ell^-\overline{ u}_\ell$ anything	$(5.9\pm\ 1.6)\times10^{-3}$	DESIG=1

### b-baryon ADMIXTURE $(\Lambda_b, \Xi_b, \Sigma_b, \Omega_b)$ BRANCHING RATIOS

NODE=S061215

NODE=S061R8 NODE=S061R8

$\Gamma(p\mu^-\overline{\nu}anything)/\Gamma_{total}$							
VALUE	<b>EVTS</b>	DOCUMENT ID		TECN	COMMENT		
$0.053^{igoplus 0.020}_{-0.017} \pm 0.008$	125	<sup>14</sup> ABREU	<b>95</b> S	DLPH	$e^+e^-\to~Z$		

 $^{14}$  ABREU 95S reports [Γ( $b\text{-baryon}\to p\mu^-\overline{\nu}\text{ anything})/\Gamma_{\text{total}}]\times [B(\overline{b}\to b\text{-baryon})] = 0.0049 \pm 0.0011^{+0.0015}_{-0.0011}$  which we divide by our best value B( $\overline{b}\to b\text{-baryon})= (9.3\pm1.5)\times10^{-2}.$  Our first error is their experiment's error and our second error is the systematic error from using our best value.

NODE=S061R8;LINKAGE=CA

$\Gamma(p\ell\overline{ u}_\ell$ anything)/ $\Gamma_{total}$					$\Gamma_2/\Gamma$
VALUE	DOCUMENT ID		TECN	COMMENT	
$0.051 \pm 0.009 \pm 0.008$	15 BARATE	98V	AI FP	$e^+e^- \rightarrow 7$	

<sup>15</sup>BARATE 98V reports  $[\Gamma(b\text{-baryon} \rightarrow p\ell\overline{\nu}_{\ell} \text{ anything})/\Gamma_{\text{total}}] \times [B(\overline{b} \rightarrow b\text{-baryon})]$ =  $(4.72 \pm 0.66 \pm 0.44) \times 10^{-3}$  which we divide by our best value B( $\overline{b} \rightarrow b$ -baryon)  $= (9.3 \pm 1.5) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

# NODE=S061R9 NODE=S061R9

NODE=S061R9;LINKAGE=A

### $\Gamma(p\ell\overline{\nu}_{\ell}\text{anything})/\Gamma(p\text{anything})$

 $\Gamma_2/\Gamma_3$ VALUE DOCUMENT ID TECN COMMENT  $0.080 \pm 0.012 \pm 0.014$ 98V ALEP  $e^+e^- \rightarrow Z$ **BARATE** 

NODE=S061R10 NODE=S061R10

### $\Gamma(\Lambda \ell^- \overline{\nu}_\ell \text{ anything})/\Gamma_{\text{total}}$

 $\Gamma_4/\Gamma$ 

NODE=S061R5 NODE=S061R5

The values and averages in this section serve only to show what values result if one assumes our B( $b \rightarrow b$ -baryon). They cannot be thought of as measurements since the underlying product branching fractions were also used to determine  $B(b \rightarrow b$ -baryon) as described in the note on "Production and Decay of b-Flavored Hadrons."

NODE=S061R5

NODE=S061R5;LINKAGE=KK

NODE=S061R5;LINKAGE=AA

NODE=S061R5;LINKAGE=CA

NODE=S061R5:LINKAGE=BL

NODE=S061R5:LINKAGE=KA

NODE=S061R5;LINKAGE=BA

DOCUMENT ID TECN COMMENT 0.034 ± 0.006 OUR AVERAGE  $^{16}\,\mathrm{BARATE}$  $e^+e^- \rightarrow Z$  $0.035 \pm 0.005 \pm 0.006$ 98D ALEP <sup>17</sup> AKERS  $0.031 \pm 0.004 \pm 0.005$ Excess of  $\Lambda \ell^-$  over  $\Lambda \ell^+$ <sup>18</sup> ABREU  $0.032 \pm 0.008 \pm 0.005$ Excess of  $\Lambda \ell^-$  over 262  $\Lambda \ell^+$ <sup>19</sup> BUSKULIC 290  $0.066 \pm 0.013 \pm 0.011$ ALEP Excess of  $\Lambda \ell^-$  over

• • We do not use the following data for averages, fits, limits, etc.

<sup>20</sup> AKERS 157 OPAL Excess of  $\Lambda \ell^-$  over <sup>21</sup> BUSKULIC  $0.075 \pm 0.022 \pm 0.012$ **ALEP** Excess of  $\Lambda \ell^-$  over  $\Lambda \ell^+$ 

 $16\,\mathsf{BARATE}\,\,\mathsf{98D}\,\,\mathsf{reports}\,\,[\Gamma\big(b\mathsf{-baryon}\,\,\to\,\, \Lambda\ell^-\,\overline{\nu}_\ell\,\mathsf{anything}\big)/\Gamma_\mathsf{total}]\,\times\,[\mathsf{B}(\overline{b}\to\,\,b\mathsf{-baryon})]$  $= 0.00326 \pm 0.00016 \pm 0.00039$  which we divide by our best value B( $\overline{b} 
ightarrow b$ -baryon)  $= (9.3 \pm 1.5) imes 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value. Measured using the excess of  $\Lambda\ell^-$ , lepton impact parameter.

<sup>17</sup> AKERS 96 reports  $[\Gamma(b\text{-baryon} \rightarrow \Lambda \ell^- \overline{\nu}_\ell \text{ anything})/\Gamma_{\text{total}}] \times [B(\overline{b} \rightarrow b\text{-baryon})] =$  $0.00291 \pm 0.00023 \pm 0.00025$  which we divide by our best value B( $\overline{b} \rightarrow b$ -baryon) =  $(9.3 \pm 1.5) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

<sup>18</sup> ABREU 95S reports  $[\Gamma(b\text{-baryon} \rightarrow \Lambda \ell^- \overline{\nu}_{\ell} \text{ anything})/\Gamma_{\text{total}}] \times [\underline{B}(\overline{b} \rightarrow b\text{-baryon})]$  $= 0.0030 \pm 0.0006 \pm 0.0004$  which we divide by our best value B( $\overline{b} \rightarrow b$ -baryon) =  $(9.3 \pm 1.5) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

<sup>19</sup> BUSKULIC 95L reports [ $\Gamma(b\text{-baryon} \to \Lambda \ell^- \overline{\nu}_\ell \text{ anything})/\Gamma_{\mathsf{total}}] \times [B(\overline{b} \to b\text{-baryon})]$ = 0.0061  $\pm$  0.0006  $\pm$  0.0010 which we divide by our best value B( $\overline{b} \rightarrow b$ -baryon) =  $(9.3 \pm 1.5) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

 $^{20}\,\mathrm{AKERS}$  93 superseded by AKERS 96.

<sup>21</sup> BUSKULIC 921 reports  $[\Gamma(b\text{-baryon} \to \Lambda \ell^- \overline{\nu}_\ell \text{ anything})/\Gamma_{\text{total}}] \times [B(\overline{b} \to b\text{-baryon})]$ = 0.0070  $\pm$  0.0010  $\pm$  0.0018 which we divide by our best value B( $\overline{b} \rightarrow b$ -baryon) =  $(9.3 \pm 1.5) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value. Superseded by BUSKULIC 95L.

 $\Gamma_5/\Gamma_6$ 

 $\Gamma_8/\Gamma$ 

NODE=S061R2 NODE=S061R2

NODE=S061R7 NODE=S061R7

NFW/

## $\Gamma(\Lambda \ell^+ \nu_\ell \text{ anything})/\Gamma(\Lambda \text{ anything})$

DOCUMENT ID TECN COMMENT 99L OPAL  $e^+e^- \rightarrow Z$  $0.080 \pm 0.012 \pm 0.008$ ABBIENDI  $\bullet$   $\bullet$  We do not use the following data for averages, fits, limits, etc.  $\bullet$   $\bullet$  $0.070 \pm 0.012 \pm 0.007$ ACKERSTAFF 97N OPAL Repl. by ABBI-

 $\Gamma(\Lambda/\overline{\Lambda})$  anything  $\Gamma(\Lambda/\overline{\Lambda})$ 

DOCUMENT ID TECN COMMENT

ENDI 99L

0.36±0.07 OUR AVERAGE  $[0.35\pm0.08~{
m OUR}~2012~{
m AVERAGE}]$ <sup>22</sup> ABBIENDI  $0.38 \!\pm\! 0.05 \!\pm\! 0.06$ 99L OPAL  $e^+e^- \rightarrow Z$  $0.24^{\,+\,0.13}_{\,-\,0.08}\!\pm\!0.04$ <sup>23</sup> ABREU 95C DLPH  $e^+e^- \rightarrow Z$ 

ullet ullet We do not use the following data for averages, fits, limits, etc. ullet ullet

<sup>24</sup> ACKERSTAFF 97N OPAL Repl. by ABBI- $0.42 \pm 0.06 \pm 0.07$ ENDI 99L

<sup>22</sup> ABBIENDI 99L reports  $[\Gamma(b\text{-baryon} \rightarrow \Lambda/\overline{\Lambda}\text{anything})/\Gamma_{\text{total}}] \times [B(\overline{b} \rightarrow b\text{-baryon})]$  $= 0.035 \pm 0.0032 \pm 0.0035$  which we divide by our best value B( $\overline{b} 
ightarrow b$ -baryon) = $(9.3\pm1.5) imes10^{-2}.$  Our first error is their experiment's error and our second error is

 $\Gamma_{ ext{total}}] \, imes \, [\mathsf{B}(\overline{b} o \,\,\, b ext{-baryon})]$  assuming  $\mathsf{B}(\overline{b} o \,\,\, b ext{-baryon}) = 0.08 \pm 0.02$ , which we rescale to our best value B( $\overline{b} \rightarrow b$ -baryon) = (9.3  $\pm$  1.5)  $\times$  10<sup>-2</sup>. Our first error is their experiment's error and our second error is the systematic error from using our best

baryon)] = 0.0393  $\pm$  0.0046  $\pm$  0.0037 which we divide by our best value B( $\overline{b} \rightarrow b$ baryon) =  $(9.3 \pm 1.5) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

NODE=S061R7:LINKAGE=D

NODE=S061R7;LINKAGE=AA

NODE=S061R7;LINKAGE=C

#### $\Gamma(\Xi^-\ell^-\overline{\nu}_\ell \text{ anything})/\Gamma_{\text{total}}$ $\Gamma_9/\Gamma$ NODE=S061R1 NODE=S061R1 DOCUMENT ID TECN COMMENT 0.0059 ± 0.0016 OUR AVERAGE 96T ALEP Excess $\Xi^-\ell^-$ over $\Xi^-\ell^+$ $^{25}\,\mathrm{BUSKULIC}$ $0.0058 \pm 0.0015 \pm 0.0009$ <sup>26</sup> ABREU 95V DLPH Excess $\Xi$ $0.0063 \pm 0.0025 \pm 0.0010$ <sup>25</sup> BUSKULIC 96T reports [ $\Gamma(b\text{-baryon} \rightarrow \Xi^-\ell^-\overline{\nu}_\ell \text{anything})/\Gamma_{\mathsf{total}}$ ] $\times$ [B( $\overline{b} \rightarrow_- b$ -NODE=S061R1;LINKAGE=C baryon)] = 0.00054 $\pm$ 0.00011 $\pm$ 0.00008 which we divide by our best value B( $\bar{b} \rightarrow b$ -baryon) = $(9.3 \pm 1.5) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value. 26 ABREU 95V reports $[\Gamma(b\text{-baryon} \to \Xi^-\ell^-\overline{\nu}_\ell \text{ anything})/\Gamma_{\text{total}}] \times [\underline{B}(\overline{b} \to b\text{-baryon})]$ NODE=S061R1;LINKAGE=B $= 0.00059 \pm 0.00021 \pm 0.0001$ which we divide by our best value B( $\overline{b} ightarrow b$ -baryon) = $(9.3 \pm 1.5) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value. NODE=S061

b-baryon ADMIXTURE $(\Lambda_b, \Xi_b, \Sigma_b, \Omega_b)$ REFERENCES
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AAD ABAZOV AALTONEN ABAZOV ABULENCIA ABAZOV ABULENCIA ABAZOV ABBIENDI ACKERSTAFF BARATE BARATE BARATE BARATE ACKERSTAFF ABE ACKERSTAFF ABE ABREU AKERS BUSKULIC ABREU AKERS BUSKULIC	13U 12U 10B 07S 07U 07A 05C 99L 98G 98D 96D 96D 95C 95S 95V 95S 93F 93 92I	PR D87 032002 PR D85 112003 PRL 104 102002 PRL 99 142001 PRL 99 182001 PRL 98 122001 PRL 94 102001 EPJ C9 1 EPJ C10 185 PL B426 161 EPJ C2 197 EPJ C5 205 ZPHY C74 423 PRL 77 1439 ZPHY C71 199 ZPHY C69 195 PL B384 449 PL B347 447 ZPHY C68 375 ZPHY C68 541 PL B357 685 PL B311 379 PL B316 435 PL B316 435 PL B297 449	G. Aad et al. V.M. Abazov et al. T. Aaltonen et al. V.M. Abazov et al. V.M. Abazov et al. V.M. Abazov et al. A. Abulencia et al. V.M. Abazov et al. G. Abbiendi et al. P. Abreu et al. R. Barate et al. R. Barate et al. F. Abe et al. P. Abreu et al.	(ATLAS Collab.) (D0 Collab.) (CDF Collab.) (D0 Collab.) (D0 Collab.) (D0 Collab.) (D0 Collab.) (D0 Collab.) (D0 Collab.) (D1 Collab.) (D2 Collab.) (D3 Collab.) (D4 Collab.) (D5 Collab.) (D6 Collab.) (D6 Collab.) (D7 Collab.) (D8 Collab.) (D9 Collab.) (D9 Collab.) (D9 Collab.) (D9 Collab.) (D1 Collab.) (D1 Collab.) (D1 Collab.) (D2 Collab.) (D3 Collab.) (D4 Collab.) (D5 Collab.) (D6 Collab.) (D6 Collab.) (D6 Collab.) (D6 Collab.) (D6 Collab.) (D6 Collab.) (D7 Collab.) (D8 Collab.) (D8 Collab.) (D8 Collab.) (D9 Collab.) (D9 Collab.) (D9 Collab.)	REFID=54939 REFID=54350 REFID=52008 REFID=52008 REFID=520043 REFID=51662 REFID=50511 REFID=47024 REFID=47024 REFID=45875 REFID=45875 REFID=446151 REFID=446151 REFID=44691 REFID=44676 REFID=44676 REFID=44676 REFID=44468 REFID=44468 REFID=44468 REFID=44337 REFID=43541 REFID=43221
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